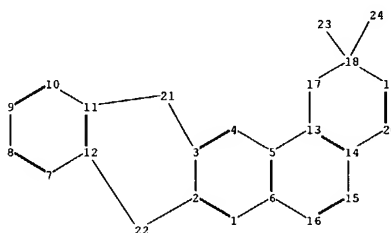
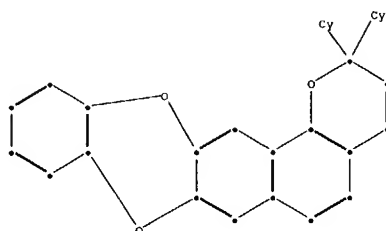


Untitled)



chain nodes :  
23 24  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22  
chain bonds :  
18-23 18-24  
ring bonds :  
1-2 1-6 2-3 2-22 3-4 3-21 4-5 5-6 5-13 6-16 7-8 7-12 8-9 9-10 10-11 11-12  
11-21 12-22 13-14 13-17 14-15 14-20 15-16 17-18 18-19 19-20  
exact/norm bonds :  
18-23 18-24  
exact bonds :  
2-22 3-21 11-21 12-22 13-17 14-20 17-18 18-19 19-20  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-13 6-16 7-8 7-12 8-9 9-10 10-11 11-12 13-14  
14-15 15-16  
isolated ring systems :  
containing 1 :

match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:Atom 24:Atom  
generic attributes :  
23:  
Saturation : Unsaturated  
24:  
Saturation : Unsaturated

Element Count :  
Node 23: Limited  
O,00-1  
N,N0-1

Node 24: Limited

O,O0-1

N,N0-1

L3 1 L2

=> d fbib abs fhitr

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:717401 CAPLUS

DN 139:246917

TI Photochromic benzodioxine-fused naphthopyran dyes and compositions and articles containing them

IN Qin, Xuzhi; Ippoliti, J. Thomas

PA Vision-Ease Lens, Inc., USA

SO U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003168645	A1	20030911	US 2002-90594	20020301
	WO 2003074528	A1	20030912	WO 2003-US6140	20030228
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR			
				US 2002-90594	A 20020301

OS MARPAT 139:246917

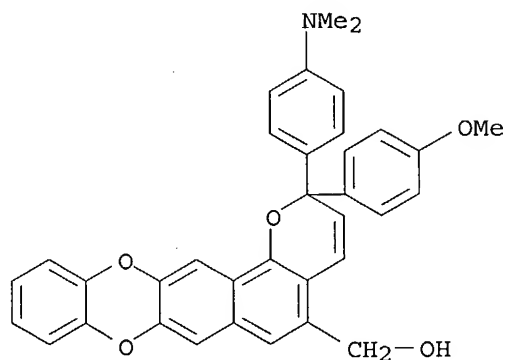
AB Benzodioxinonaphtho[1,2-b]pyran compds. having particularly advantageous photochromic properties, such as high sensitivity/coloration and two distinct absorption bands at 430-500 and 520-620 nm of the visible spectrum are disclosed. In an example, 2-(4-methoxyphenyl)-2-[4-(dimethylamino)phenyl]5-(hydroxymethyl)-2H-(benzo[b]dioxino[2,3-b]naphtho)[1,2-b]pyran was prepared

IT 596106-14-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(dye; production of benzodioxinonaphthopyran photochromic dyes)

RN 596106-14-8 CAPLUS

CN 2H-Benzo[b]-1-benzopyrano[7,8-g][1,4]benzodioxin-5-methanol,  
2-[4-(dimethylamino)phenyl]-2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 17:07:28 ON 07 JUN 2004)

FILE 'REGISTRY' ENTERED AT 17:07:40 ON 07 JUN 2004

L1               STRUCTURE UPLOADED  
L2               3 S L1 FUL

FILE 'CAPLUS' ENTERED AT 17:08:52 ON 07 JUN 2004

L3               1 S L2